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(54) Title: HEAT SPREADER

(57) Abstract: A heat spreader for an electronic device has a layer of CVD diamond, which is continuous and without uncontrolled pits or holes, grown onto a diamond loaded material. The diamond loaded material comprises a mass of diamond particles in a matrix and has a surface with exposed diamond particles on which the layer of CVD diamond is grown. The layer of CVD diamond is bonded to the exposed diamond particles of the diamond loaded material at least in part by epitaxy.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01L23/373

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01L C23C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2002/023733 A1 (FOX JOE R ET AL) 28 February 2002 (2002-02-28) paragraph '0028!	1-38
A	EP 0 859 408 A (SUMITOMO ELECTRIC INDUSTRIES) 19 August 1998 (1998-08-19) the whole document	1-38
A	EP 0 930 378 A (SAINT GOBAIN NORTON IND CERAMI) 21 July 1999 (1999-07-21) paragraph '0020!	1-38
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	SUMIO LIJIMA ET AL: "EARLY FORMATION OF CHEMICAL VAPOR DEPOSITION DIAMOND FILMS" APPLIED PHYSICS LETTERS, AMERICAN INSTITUTE OF PHYSICS. NEW YORK, US, vol. 57, no. 25, 17 December 1990 (1990-12-17), pages 2646-2648, XP000176420 ISSN: 0003-6951 the whole document	
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